(FILE 'HOME' ENTERED AT 18:11:00 ON 18 MAY 2004)

FILE 'MEDLINE, BIOTECHDS, EMBASE, BIOSIS, SCISEARCH, CANCERLIT, CAPLUS' ENTERED AT 18:11:09 ON 18 MAY 2004 L12385 S CHRISTIANS F?/AU OR COLE K?/AU L_2 306 S RIBOSOME DISPLAY L3 337413 S ARRAY OR MICROARRY OR PROBE ARRAY OR CHIP OR BIOCHIP 14 S L2 AND L3 L4L5 0 S L1 AND L2 L6 47 S L1 AND L3 L7 16 S L6 AND (POLYPEPTIDE OR PROTEIN OR PEPTIDE) 12 S L4 AND (PROTEIN OR POLYPEPTIDE OR PEPTIDE) L8 8 DUP REM L7 (8 DUPLICATES REMOVED) L9 10 DUP REM L8 (2 DUPLICATES REMOVED) L10L1124 S L2 AND (PROB## OR OLIGONUCLEOTID## OR OLIGO#) 5 S L11 AND (ARRAY OR MICROARRAY OR SOLID SUPPORT OR CHIP OR BIOC L12 L13 5 DUP REM L12 (0 DUPLICATES REMOVED) 19 DUP REM L11 (5 DUPLICATES REMOVED) L14L15 18 S L2 AND (NUCLEIC ACID TAG OR TAG?) L16 8 DUP REM L15 (10 DUPLICATES REMOVED)

WEST Search History

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DATE: Tuesday, May 18, 2004

Hide?	<u>Set</u> Name	Qu <u>ery</u>	Hit Count
	DB=PC	GPB, USPT, USOC, EPAB, DWPI; PLUR=YES; OP=ADJ	
	L1	Baskerville-D\$.in. and ribosome display	0
Γ	L2	Baskerville-D\$.in.	8
	L3	ribosome display	250
	L4	L2 and 13	0
	L5 ·	array or microarray or probe array	622709
	L6	13 and 15	152
	L7	13 same 15	26
	L8	l6 and (screen\$ near (polypeptide or protein))	81
	L9	L8 and tag\$	76
	L10	L9 and (binding affinity)	62
	L11	L10 and (drug near candidate)	31
	L12	19 and ((different or plurality) near (oligonucleotide or probe))	10
	L13	18 and ((different or plurality) near (oligonucleotide or probe))	10
	L14	l6 and ((different or plurality) near (oligonucleotide or probe))	19
	L15	l3 and ((different or plurality) near (oligonucleotide or probe))	24
[]	L16	christians-F\$.in. or cole-K\$.in.	104
	L17	ribosome display	250
	L18	(tagged polypeptide) or (polypeptide near tag\$)	2659
	L19	L18 and L17	19
	L20	L19 and (nucleic acid tag or DNA tag or oligo\$ tag or polynucleotide tag)	10
	L21	L20 and (array or microarray)	10
	L22	polynucleotide tag\$ or oligonucleotide tag\$ or nucleic acid tag\$ or oligo\$ tag\$ or DNA tag\$	496
	L23	L22 and L17	18
	L24	L23 and (array or microarray)	16
	L25	L16 and ribosome display	1
	L26	L16 and L18	2
	L27	L26	2

END OF SEARCH HISTORY

First Hit

Generate Collection Print

L7: Entry 12 of 26

File: PGPB

Jul 31, 2003

DOCUMENT-IDENTIFIER: US 20030143616 A1 TITLE: Addressable protein arrays

Summary of Invention Paragraph:

[0010] In another related aspect, the invention features a solid support including an array of immobilized capture probes; each of the capture probes includes a non-nucleosidic spacer group and an oligonucleotide sequence to which a ribosome display particle is bound (for example, hybridized or covalently bound).

Detail Description Paragraph:

[0052] Ordered, addressable arrays of peptide fragments can also be prepared. To prepare these arrays, the fusion library is generated from short synthetic DNA sequences or fragments of cDNAs or genomic DNAs. In another variation, ribosome display particles, such as those described in Gold et al., WO 93/03172, can be hybridized to the solid support to generate the protein array. Again, these particles are immobilized on the solid support through a hybridization reaction between the capture oligo and the protein-coding RNA.

CLAIMS:

25. A solid support comprising an <u>array</u> of immobilized capture probes, each of said capture probes comprising a non-nucleosidic spacer group and an oligonucleotide sequence to which a <u>ribosome display</u> particle is bound.

First Hit Fwd Refs

Generate Collection Print

L7: Entry 22 of 26

File: USPT

Mar 25, 2003

DOCUMENT-IDENTIFIER: US 6537749 B2 TITLE: Addressable protein arrays

Brief Summary Text (11):

In another related aspect, the invention features a solid support including an array of immobilized capture probes; each of the capture probes includes a non-nucleosidic spacer group and an oligonucleotide sequence to which a <u>ribosome</u> display particle is bound (for example, hybridized or covalently bound).

Detailed Description Text (22):

Ordered, addressable <u>arrays</u> of peptide fragments can also be prepared. To prepare these <u>arrays</u>, the fusion library is generated from short synthetic DNA sequences or fragments of cDNAs or genomic DNAs. In another variation, <u>ribosome display</u> particles, such as those described in Gold et al., WO 93/03172, can be hybridized to the solid support to generate the protein <u>array</u>. Again, these particles are immobilized on the solid support through a hybridization reaction between the capture oligo and the protein-coding RNA.

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 20040071705 A1

Using default format because multiple data bases are involved.

L13: Entry 1 of 10

File: PGPB

Apr 15, 2004

Mar 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040071705

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040071705 A1

TITLE: Serum protein-associated target-specific ligands and identification method

therefor

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sato, Aaron K. Somerville MA US

Edge, Albert Newton MA US

US-CL-CURRENT: 424/145.1; 435/7.1



File: PGPB

PGPUB-DOCUMENT-NUMBER: 20040048311

PGPUB-FILING-TYPE: new

L13: Entry 2 of 10

DOCUMENT-IDENTIFIER: US 20040048311 A1

TITLE: Use of collections of binding sites for sample profiling and other

applications

PUBLICATION-DATE: March 11, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Ault-Riche, Dana Los Gatos CA US Kassner, Paul D. San Mateo CA US

Record List Display Page 2 of 6

US-CL-CURRENT: 435/7.1; 436/518

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

3. Document ID: US 20040043384 A1

L13: Entry 3 of 10

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040043384

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040043384 A1

TITLE: In vitro protein translation microarray device

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Oleinikov, Andrew V.

Mill Creek

WA

US

US-CL-CURRENT: 435/6; 435/287.2, 435/69.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

4. Document ID: US 20040005709 A1

L13: Entry 4 of 10

File: PGPB

Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040005709

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040005709 A1

TITLE: Hybridization control of sequence variation

PUBLICATION-DATE: January 8, 2004

INVENTOR-INFORMATION:

HMAN

CITY

STATE COUNTRY RULE-47

Hoogenboom, Henricus Renerus Jacobus Mattheus Maastricht

NL

Somers, Veerle

Sint-Truiden

ΒE

US-CL-CURRENT: 435/455; 435/320.1, 435/91.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

5. Document ID: US 20030219752 A1

L13: Entry 5 of 10

File: PGPB

Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030219752

Record List Display Page 3 of 6

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030219752 A1

TITLE: Novel antigen binding molecules for therapeutic, diagnostic, prophylactic, enzymatic, industrial, and agricultural applications, and methods for generating and screening thereof

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Short, Jay M. Rancho Santa Fe CA US

US-CL-CURRENT: <u>435/6</u>; <u>435/320.1</u>, <u>435/325</u>, <u>435/326</u>, <u>435/69.1</u>, <u>435/7.1</u>, <u>530/387.1</u>, 536/23.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWMC Draw. De

6. Document ID: US 20030143681 A1

File: PGPB Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143681

PGPUB-FILING-TYPE: new

L13: Entry 6 of 10

DOCUMENT-IDENTIFIER: US 20030143681 A1

TITLE: Human ataxin-1-like polypeptide IMX97018

PUBLICATION-DATE: July 31, 2003

INVENTOR - INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Anderson, Dirk M. Seattle WA US

US-CL-CURRENT: 435/69.1; 435/199, 435/254.2, 435/320.1, 435/325, 435/6, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

7. Document ID: US 20030143612 A1

L13: Entry 7 of 10 File: PGPB Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143612

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030143612 A1

TITLE: Collections of binding proteins and tags and uses thereof for nested sorting and high throughput screening

PUBLICATION-DATE: July 31, 2003

Record List Display Page 4 of 6

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Ault-Riche, Dana Palo Alto CA US Kassner, Paul D. San Mateo CA US

US-CL-CURRENT: 435/6; 435/7.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw, De 8. Document ID: US 20030130827 A1

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030130827

PGPUB-FILING-TYPE: new

L13: Entry 8 of 10

DOCUMENT-IDENTIFIER: US 20030130827 A1

TITLE: Protein design automation for protein libraries

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Bentzien, Joerg White Plains NY US Dahiyat, Bassil I. Altadena CA US Desjarlais, John R. Pasadena CA US Hayes, Robert J. Pasadena CA US Vielmetter, Jost Altadena CA US

US-CL-CURRENT: 703/11; 435/7.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De 9. Document ID: US 20030087232 A1

L13: Entry 9 of 10 File: PGPB May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087232

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030087232 A1

TITLE: Methods for screening polypeptides

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Christians, Fred Los Altos CA US Cole, Kyle B. Palo Alto CA US Record List Display Page 5 of 6

US-CL-CURRENT: 435/6; 530/322, 530/395

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 10. Document ID: US 20020137053 A1

L13: Entry 10 of 10

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137053

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137053 A1

TITLE: Collections of binding proteins and tags and uses thereof for nested sorting and high throughput screening

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Ault-Riche, Dana Palo Alto CAUS Kassner, Paul D. San Mateo CAUS

US-CL-CURRENT: <u>435/6</u>; <u>435/287.2</u>, <u>435/7.9</u>

Generate Collection Print Fwd Refs Bkwd Ref	fs Generat
Term	Documents
DIFFERENT	3799668
DIFFERENTS	249
PLURALITY	2938570
PLURALITIES	20280
PLURALITYS	5
OLIGONUCLEOTIDE	66476
OLIGONUCLEOTIDES	56501
PROBE	263712
PROBES	125837
(8 AND ((OLIGONUCLEOTIDE OR PROBE) NEAR (DIFFER) OR PLURALITY))).PGPB,USPT,USOC,EPAB,DWPI.	ENT 10
(L8 AND ((DIFFERENT OR PLURALITY) NEAR (OLIGONUCLEOTIDE OR PROBE))).PGPB,USPT,USOC,EPAB,DWPI.	10

Display Format: - Change Format

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First Hit



File: PGPB

L7: Entry 9 of 26

Nov 6, 2003

DOCUMENT-IDENTIFIER: US 20030207265 A1 TITLE: Method of making protein arrays

Detail Description Paragraph:

[0028] Once the nucleic acid array has been produced, the nucleic acid array can then be used to produce proteins under appropriate conditions. Methods used to produce proteins from nucleic acids in vitro are known in the art and include Roberts, R. W. and Szostak, J. W., Proc. Natl. Acad. Sci. (1997), 94(23):12297-12302 "RNA-Peptide Fusions for the In Vitro Selection of Peptides and Proteins," Hanes et al., Nat. Biotechnol. (2000) 18:1287-92 "Picomolar Affinity Antibodies from a Fully Synthetic Naive Library Selected and Evolved by Ribosome Display," and Mattheakis et al., Proc. Natl. Acad. Sci. (1994), 91:9022-9026 "An In Vitro Polysome Display System for Identifying Ligands from Very Large Peptide Libraries," each of which is hereby incorporated by reference in its entirety for all purposes. The proteins, in turn, are immobilized to the mRNA or they can then be immobilized to a support using methods known to those skilled in the art. Features of the protein arrays can be determined using methods known to those skilled in the art.

Detail Description Paragraph:

[0166] Accordingly, ribosome display is used to create an array of proteins that are expressed from and non-covalently attached to an array of nucleic acids as described by Hanes et al. and Mattheakis et al.. The nucleic acids preferably are mRNAs containing a 3' spacer encoding a C terminus spacer that is attached to the functional protein encoded by the mRNA. The nucleic acids can be synthesized by any of a number of techniques known in art, including standard protocols for automated synthesis of RNA (Millipore) or enzymatic synthesis of RNA from a cloned DNA template expressed under the control of an appropriate promoter, such as a T7 promoter that is used with a T7 RNA polymerase transcription system (Promega). The nucleic acids are arrayed as described above in Example 1A.